INDEX TO VOLUME XXXVIII

Anti-testis Antibodies and Fecundity in Female Japanese Quail, 361

Behavioral, Pituitary, and Adrenal Correlates of Controlled Fighting (Defeat) in Mice, 406
Bioenergetics of the Dickcissel, *Spiza americana*, 370
Bronson, F. H., 406
Burch, G. E., 197
Burger, J. Wendell, 191
Burton, Richard F., 335
Bywatters, James H., 165

Cade, Tom, 9
Cannibalistic Predation in Populations of Flour Beetles, 289
Comparison of Critical Thermal Maxima of Two Species of Puerto Rican Frogs of the Genus *Eleutherodactylus*, 1
Cosgrove, William B., 206, 412

Developmental Relationships of Chick Primitive-Streak and Head-Process Stages Explanted to Glucose Media, 138
Digestive Enzymes of *Frontonia leucas* (Ehrbg.), 158

Effect of Chromate on Glucose Transport by the Gut of Rainbow Trout, 202
Effect of Different pH Levels on the Activity of the Phosphomonoesterases of *Stylonychia pustulata* Following Ultraviolet Irradiation, 343
Effect of Injury on the Humidity Reaction of *Drosophilia melanogaster*, The, 197
Effect of Translocation in Altitude on Endurance Running in Deer Mice, 353
Effects of Aminopterin on Egg Development and Behavior in the House Spider, *Theridion tepidariorum*, The, 174
Effects of Environmental Stimuli on the Development of the Incubation Patch in the European Starling (*Sturnus vulgaris*), 121
Effects of Severe Hypoxia on Carbohydrate Energy Stores and Metabolism in Two Species of Fresh-Water Fish, 325
Effects of Temperature on Heart Rates of Lizards during Rest and Activity, 129
Electrophoretic Studies of *Xiphophorin* Fishes and Their Melanoma-bearing Hybrids, 149
Eleftheriou, B. E., 406

Fairbanks, Laurence D., 197
Fromm, P. O., 202

Gas Exchange in Salamanders, 228
Genetic Differences and Conditioning in *Tribolium castaneum*, 69
Gold, Ann, 9
Greenberg, Sylvia S., 149
Grodzinski, Władysław, 289

Hajdu, Emery, 197
Harrison, Jean Burch, 34
Harrison, John R., 138
Hayes, Vaughn E., 138
Heart Rate of Mussels as a Function of Latitude, Intertidal Height, and Acclimation in Temperature, 390
Heath, Alan G., 325
Heatwole, Harold, 1
Hock, Raymond J., 353
Hudson, Jack W., 243
Hunter, Norvell W., 343
Hutchison, Victor H., 228

Increase in Volume of the Perivitelline Chamber during Development of *Rana pipiens* Schreber, 80
Influence of Tonicity on Mitotic Recovery in X-irradiated Grasshopper Neuroblasts, 276

Karten, Irving, 69
King, James R., 49
Klicka, John, 177
Kopac, M. J., 149

Land, James D., 174
Licht, Paul, 129
Lloyd, James A., 121

Martof, Bernard S., 349
Meisner, Herman, 276
Mellen, W. J., 361
Mercado, Nelson, 1
Mertz, David B., 289
Middleton, Jane, 256
Morris, Robert W., 219

New Books in Physiological Zoölogy
  Erwin Bunning, The Physiological Clock: Endogenous Diurnal Rhythms and Biological Chronometry, 322
  Janet Harker, The Physiology of Diurnal Rhythms, 322
  C. M. Yonge, Physiology of Mollusca, Vol. I, 322

Ortiz, Evelina, 1

Park, Thomas, 289
Photoperiodic Regulation of Testicular Metamorphosis and Fat Deposition in Three Taxa of Rosy Finches, 49
Pickens, Peter E., 390
Pritchard, Austin W., 325
Productivity in *Tribolium castaneum*, 165
Properties and Function of the Blood Pigment of the Earthworm, *Lumbricus terrestris*, The, 206
Prus, Tadeusz, 289

Radiometric Determination of Feather Insulation and Metabolism of Arctic Birds, 267
Respiration of the Eggs and Parts of Eggs of *Aulocara elliotti* (Thomas), 213
Roemhild, George, 213
Roles of the Rectal Gland and the Kidneys in Salt and Water Excretion in the Spiny Dogfish, 191

Salthe, Stanley N., 80
Schrode, Robert R., 165
Schwartz, Joyce Blicher, 206, 412
Shivering and Heat Production in Wild Birds, 111
Sodium, Potassium, and Magnesium in the Blood of the Snail, *Helix pomatia* L., 335
Sokoloff, Alexander, 165
Stokes, R. M., 202
Study of the Unusual Pigmentation in the Salamander *Leurognathus marmoratus*, A, 349

Temperature Acclimation in Goldfish: Lack of Evidence for Hormonal Involvement, 177
Temperature Effects on Responses in the Auditory System of the Little Brown Bat *Myotis L. lucifugus*, 34
Temperature Regulation and Turbidity in the Pygmy Mouse *Baiomys taylori*, 243
Testicular Response of House Sparrows and White-crowned Sparrows to Short Daily Photoperiods with Low Intensity of Light, 255
Thermal Acclimation of Metabolism of the Yellow Bullhead, *Ictalurus natalis* (Le Sueur), 219
Tobin, Catherine A., 9
Toye, Sheila K., 138

Veghte, James H., 267
Vimala Devi, R., 158
Vinson, S. Bradleigh, 174

Wales, Eugene E., Jr., 49
Walton, Kenneth G., 349
Warburg, Michael R., 99
Water Economy and Metabolism of Two Estrildine Finches, 9
Water Relations and Internal Body Temperature of Isopods from Mesic and Xeric Habitats, 99
Wentworth, B. C., 361
West, George C., 111
Whitford, Walter G., 228

Zimmerman, John L., 370